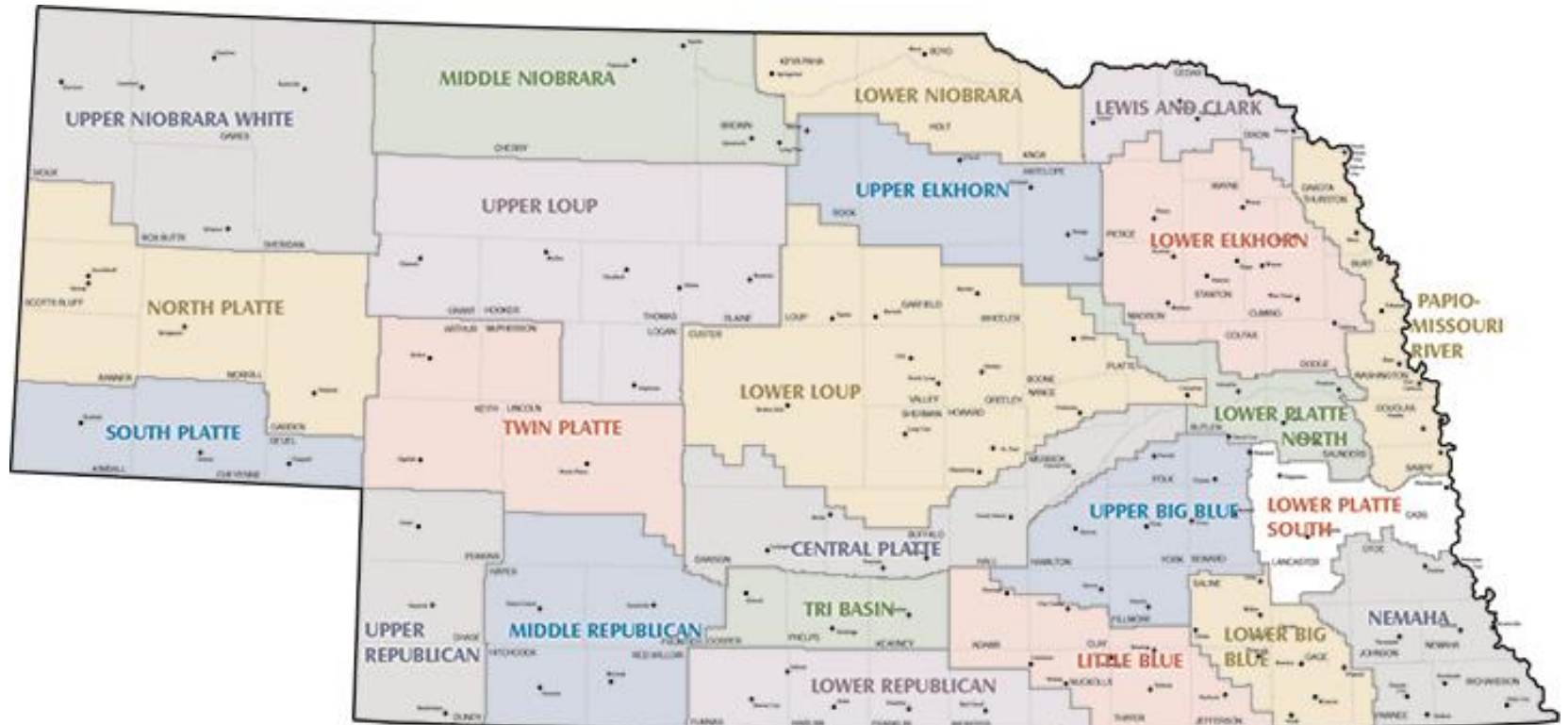


An aerial photograph of a river system, likely the Lower Platte River, showing a winding course through a landscape. The river is characterized by numerous sandbars and islands of light-colored sediment. The surrounding land is a mix of green fields, dense forests, and some developed areas. The text "Lower Platte South NRD" is overlaid in white, bold, sans-serif font in the upper-middle portion of the image.

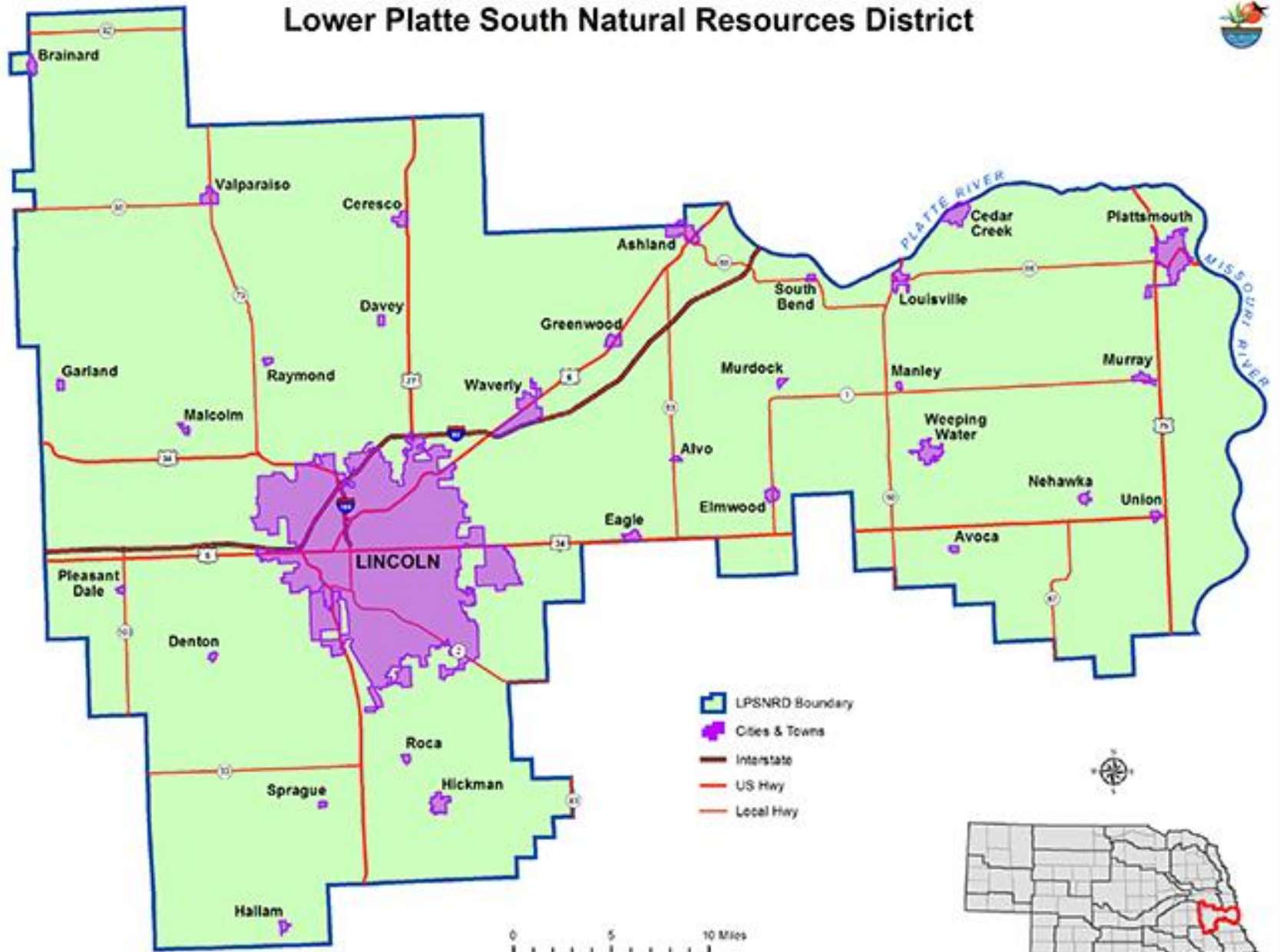
Lower Platte South NRD

Nebraska Water Funding Task Force
August 30, 2013

Nebraska's NRDs

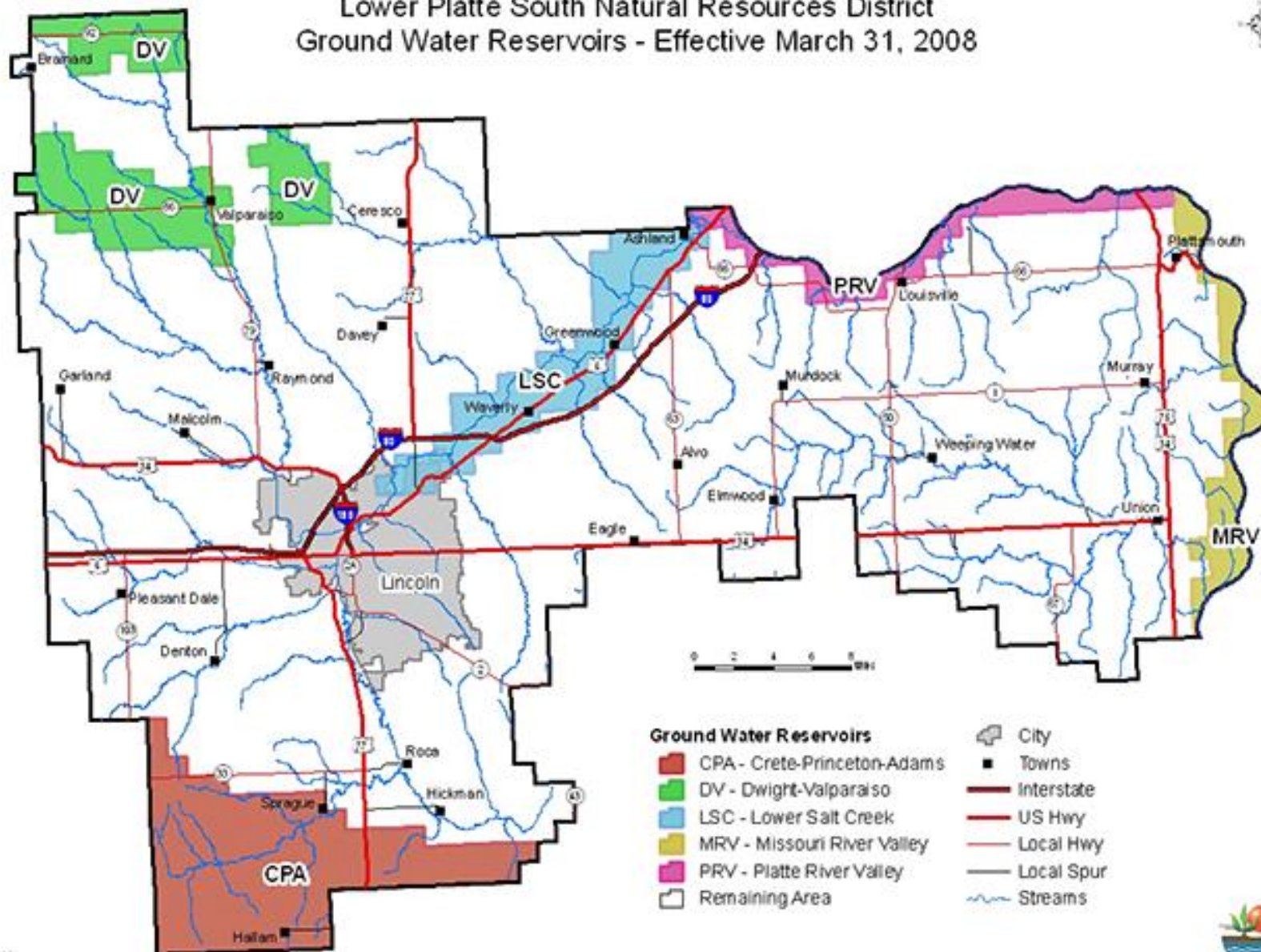


Lower Platte South Natural Resources District



Source: Lower Platte South Natural Resources District, Nebraska Department of Natural Resources, Nebraska Department of Roads

Lower Platte South Natural Resources District Ground Water Reservoirs - Effective March 31, 2008

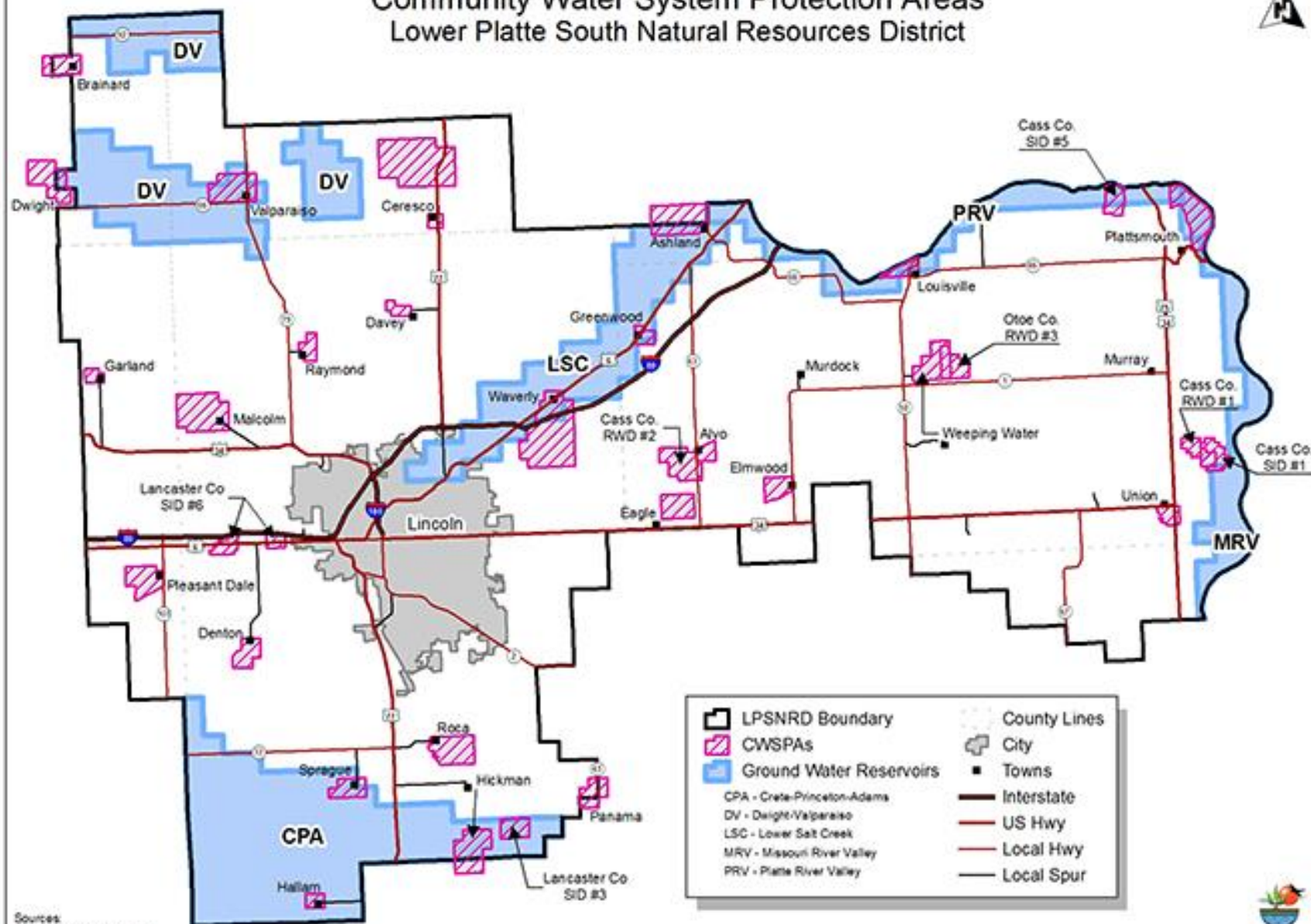


Sources:
Lower Platte South NRD;
Nebraska Dept. of Natural Resources;
Nebraska Dept. of Roads



Map Created By: Shaula D. Ross
Updated: March 2008

Community Water System Protection Areas Lower Platte South Natural Resources District



Sources:
Lower Platte South NRD;
Nebraska Dept. of Natural Resources;
Nebraska Dept. of Roads

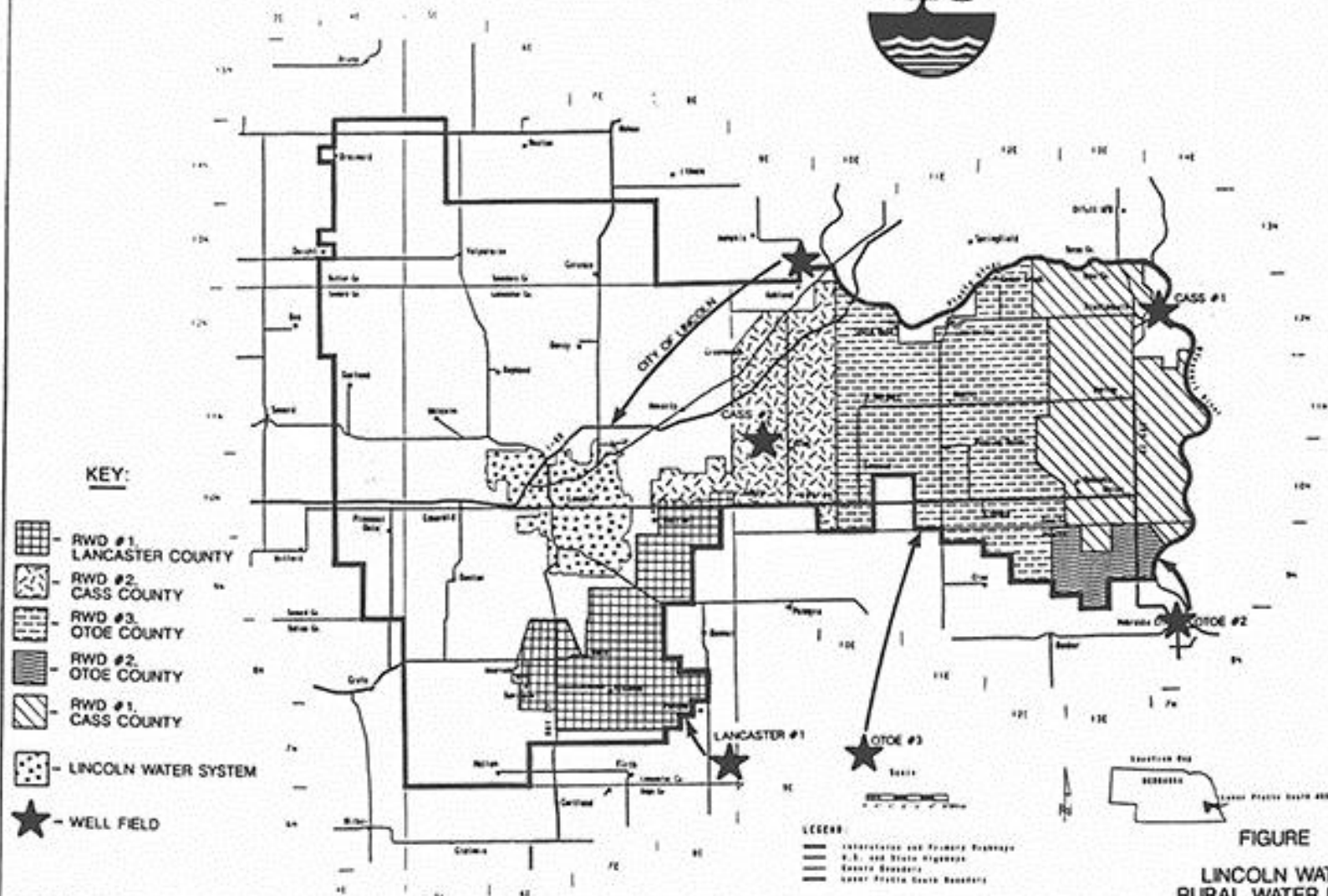
0 5 10 15 Miles



Map Created By: Shaula D. Ross
Date Created: February 2013



LOWER PLATTE SOUTH
NATURAL RESOURCES DISTRICT



Groundwater and Land Use in the Water Cycle

Direction of Groundwater Movement

Human induced impacts on groundwater

Natural processes

Precipitation

Evaporation

Transpiration

Runoff

Infiltration

Groundwater

Water Table

Unsaturated Zone

Cretaceous Limestone Aquifer

Permian Sandstone Aquifer

Paleozoic Limestone Aquifer

Zone of Saturation

Zone of Aeration

Recharge

Discharge

Direction of Groundwater Movement

- Precipitation – 2.5 M AF
- Infiltration
- Runoff
- Evaporation
- Transpiration

■ Precipitation – 2.5 M AF

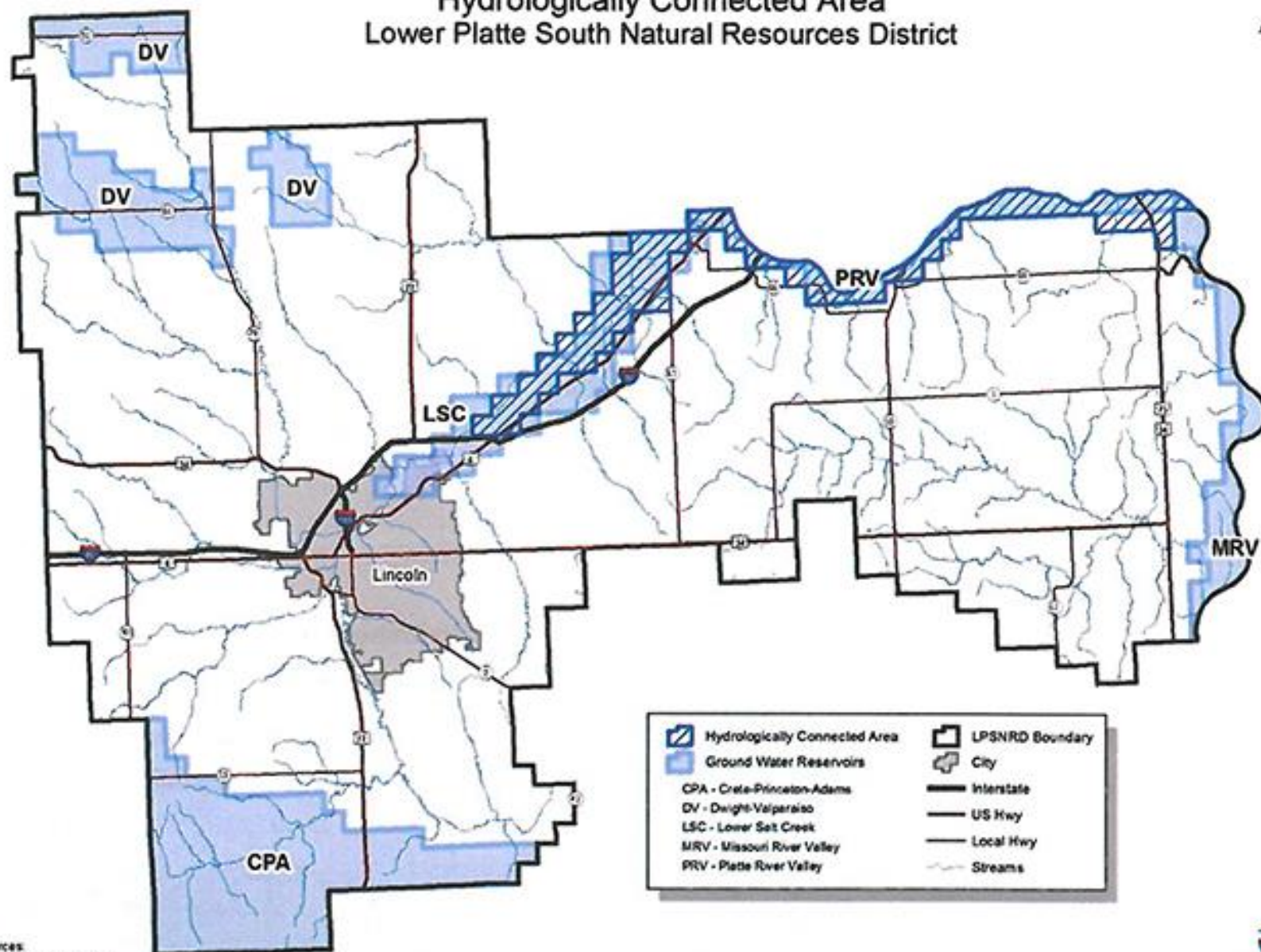
■ Infiltration

■ Runoff

■Evaporation

■ Transpiration

Hydrologically Connected Area Lower Platte South Natural Resources District



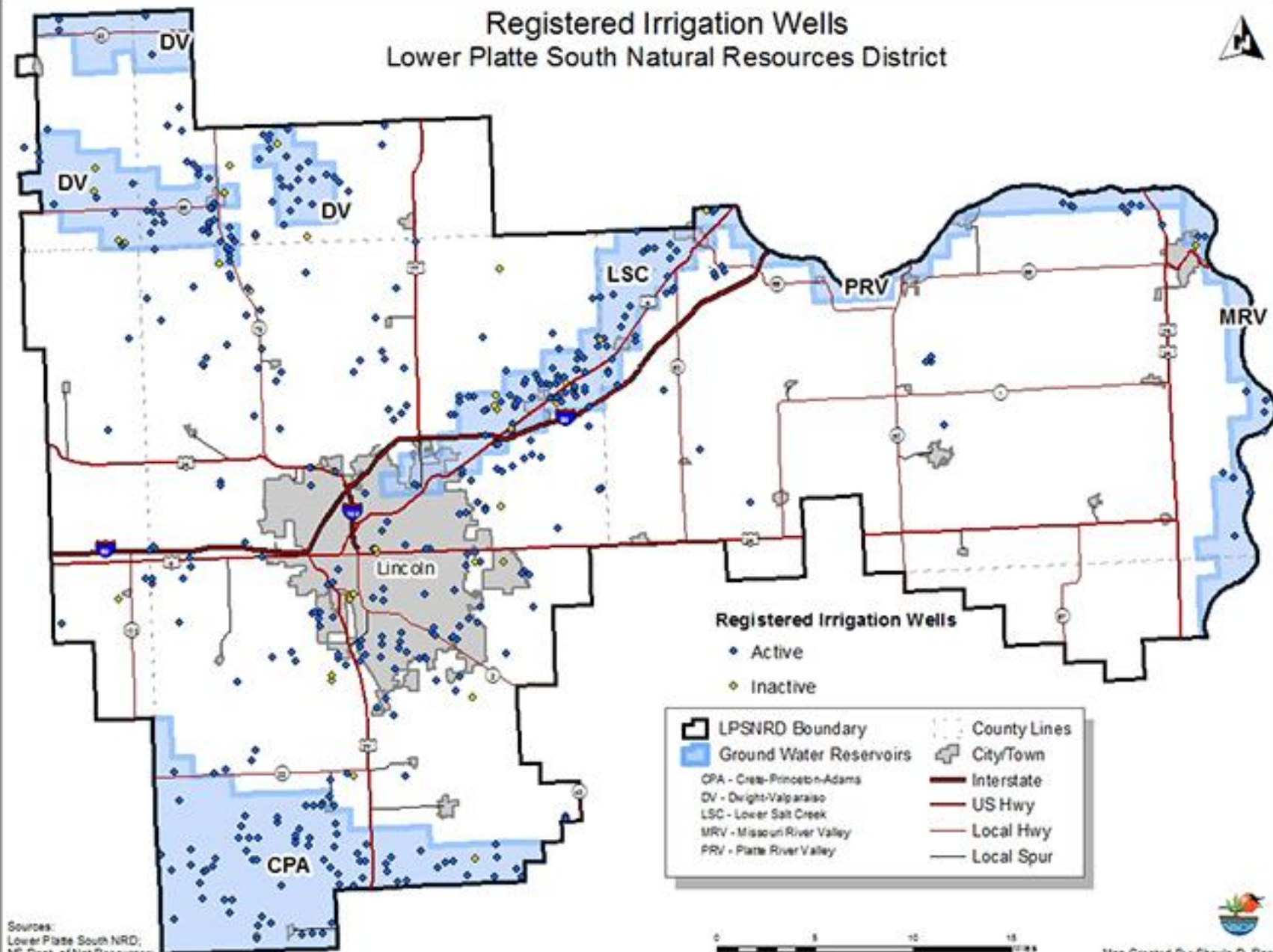
Sources:
Lower Platte South NRD;
Nebraska Dept. of Natural Resources;
Nebraska Dept. of Roads

0 5 10 15
Miles



Map Created By: Shaula D. Ross
Date Created: January 2010

Registered Irrigation Wells Lower Platte South Natural Resources District

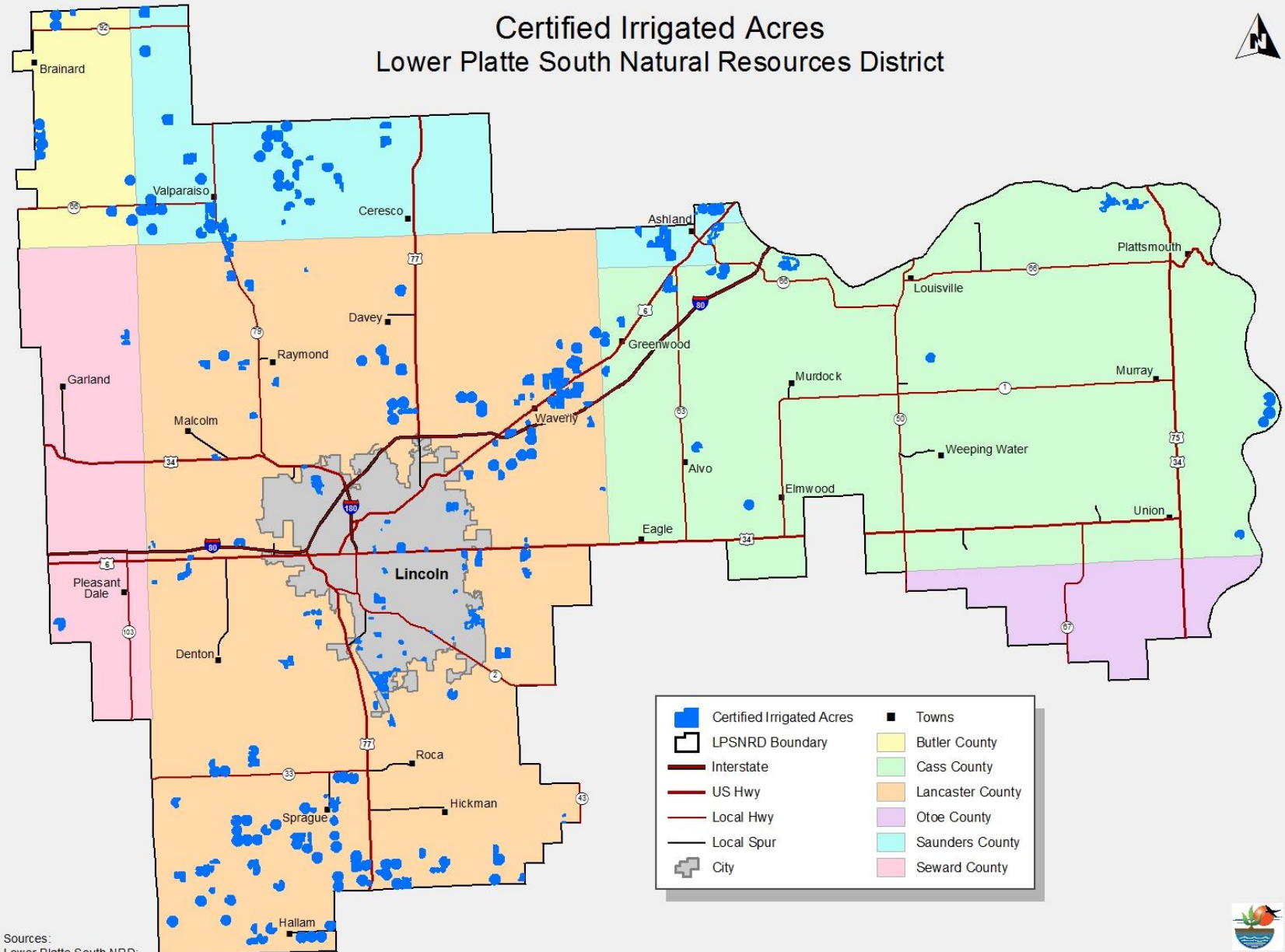


Sources:
Lower Platte South NRD;
NE Dept. of Nat Resources;
Nebraska Dept. of Roads



Map Created By: Shaula D. Ross
Date Created: February 2013

Certified Irrigated Acres Lower Platte South Natural Resources District



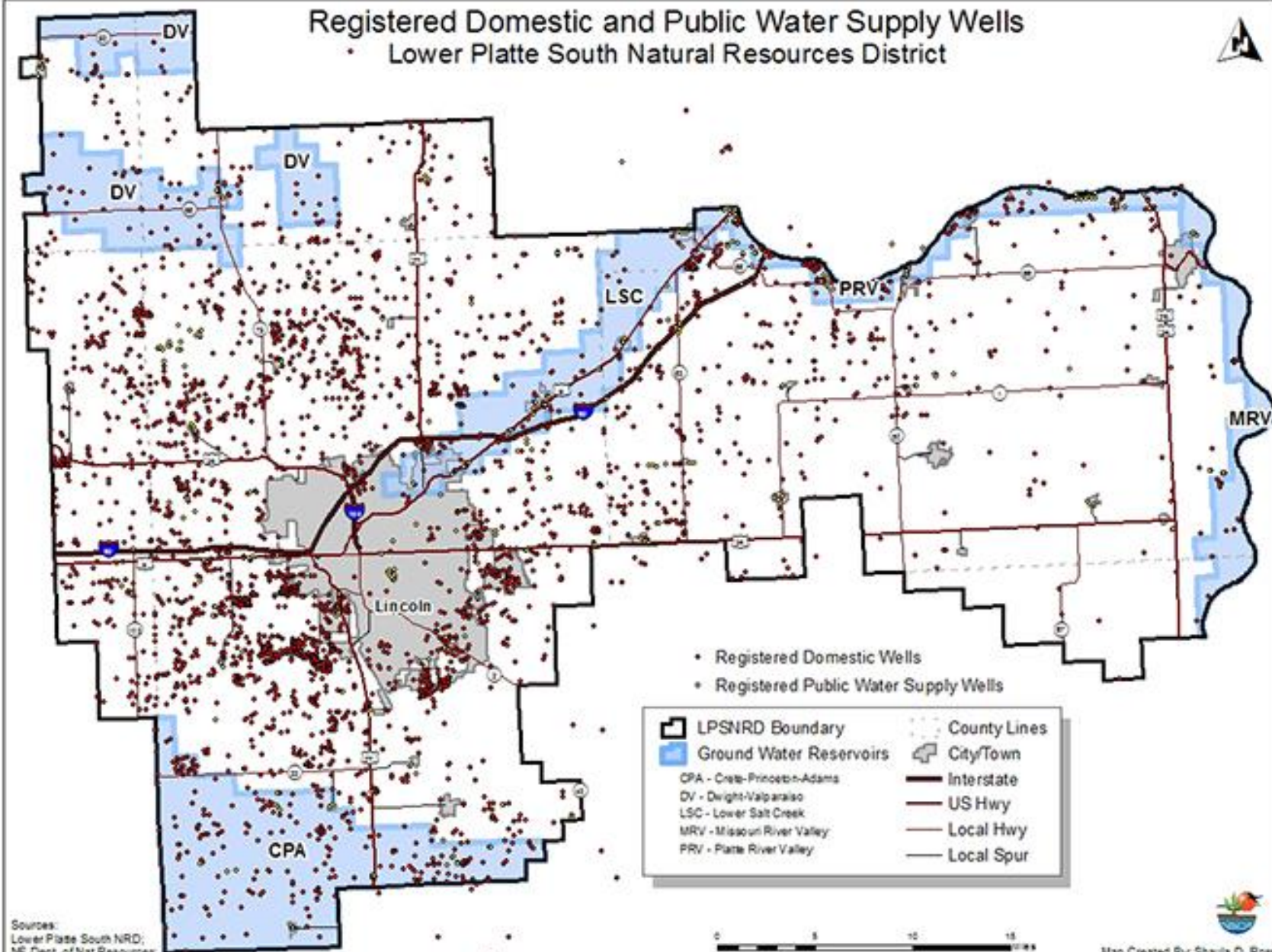
Sources:
Lower Platte South NRD;
Nebraska Dept. of Natural Resources;
Nebraska Dept. of Roads

0 5 10 15 Miles



Map Created By: Shaula D. Ross
Date Created: February 2012

Registered Domestic and Public Water Supply Wells Lower Platte South Natural Resources District



Sources:
Lower Platte South NRD;
NE Dept. of Nat Resources;
Nebraska Dept. of Roads



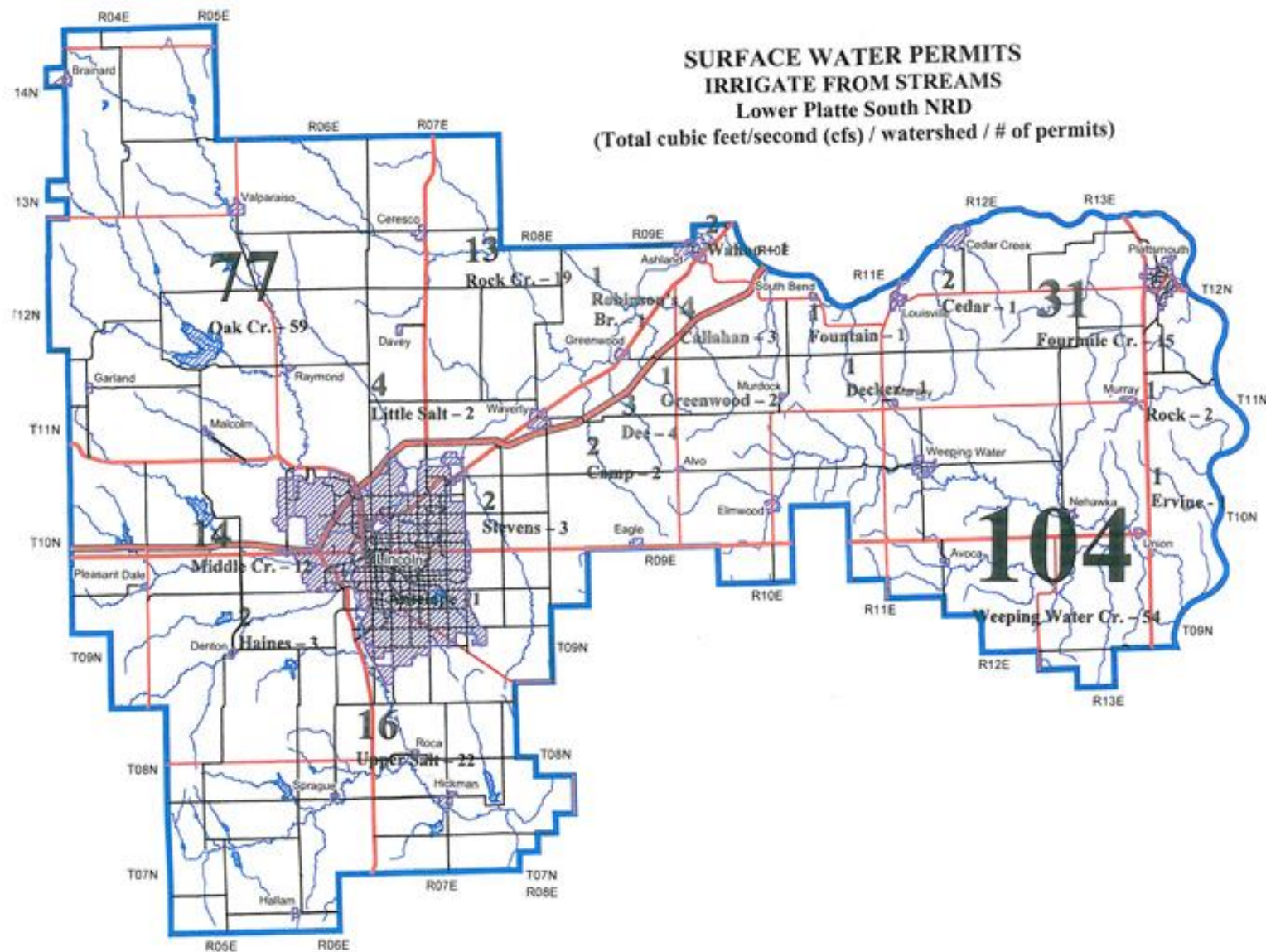
Map Created By: Shavla D. Ross
Date Created: February 2013

SURFACE WATER PERMITS

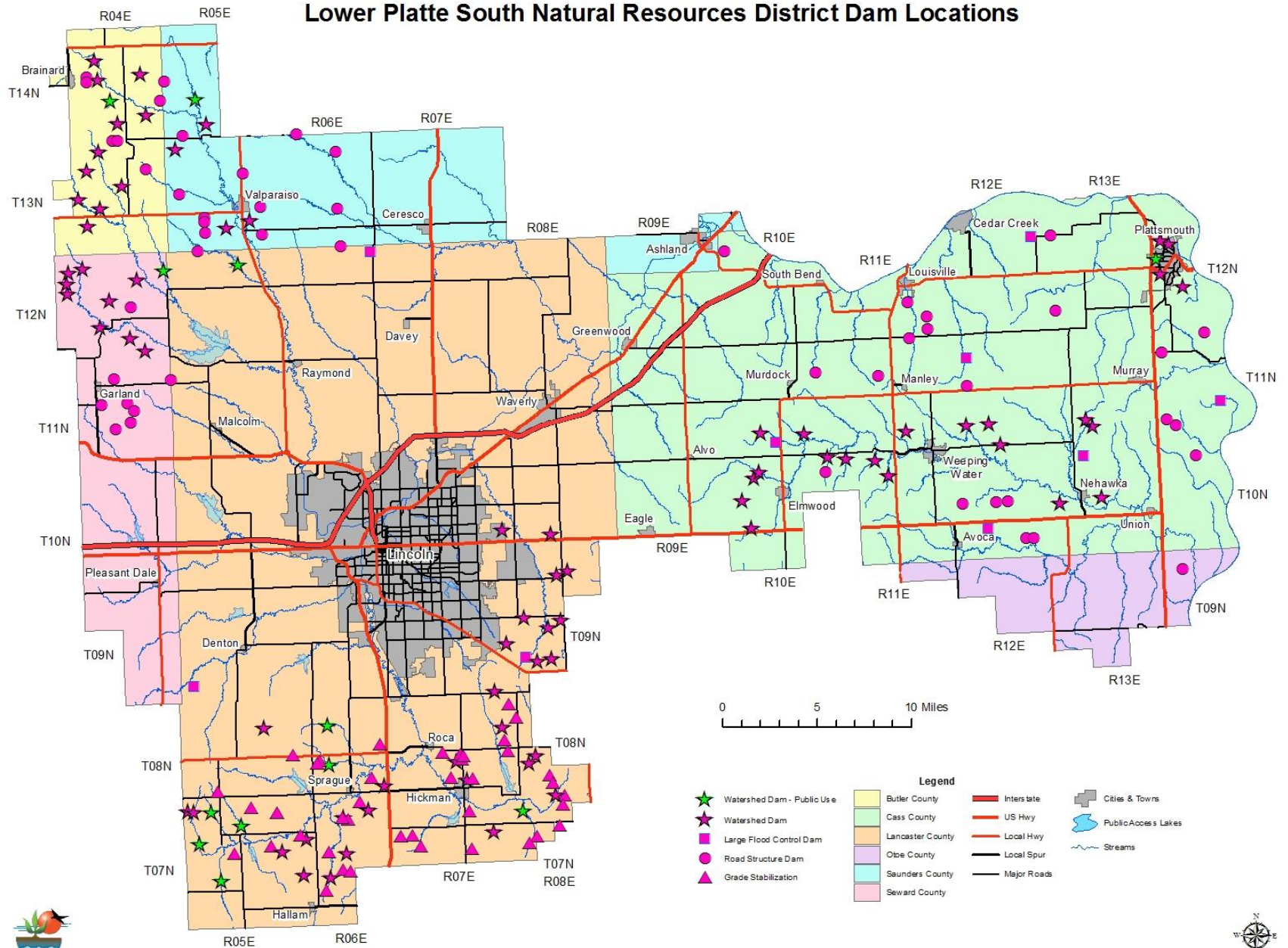
IRRIGATE FROM STREAMS

Lower Platte South NRD

(Total cubic feet/second (cfs) / watershed / # of permits)



Lower Platte South Natural Resources District Dam Locations



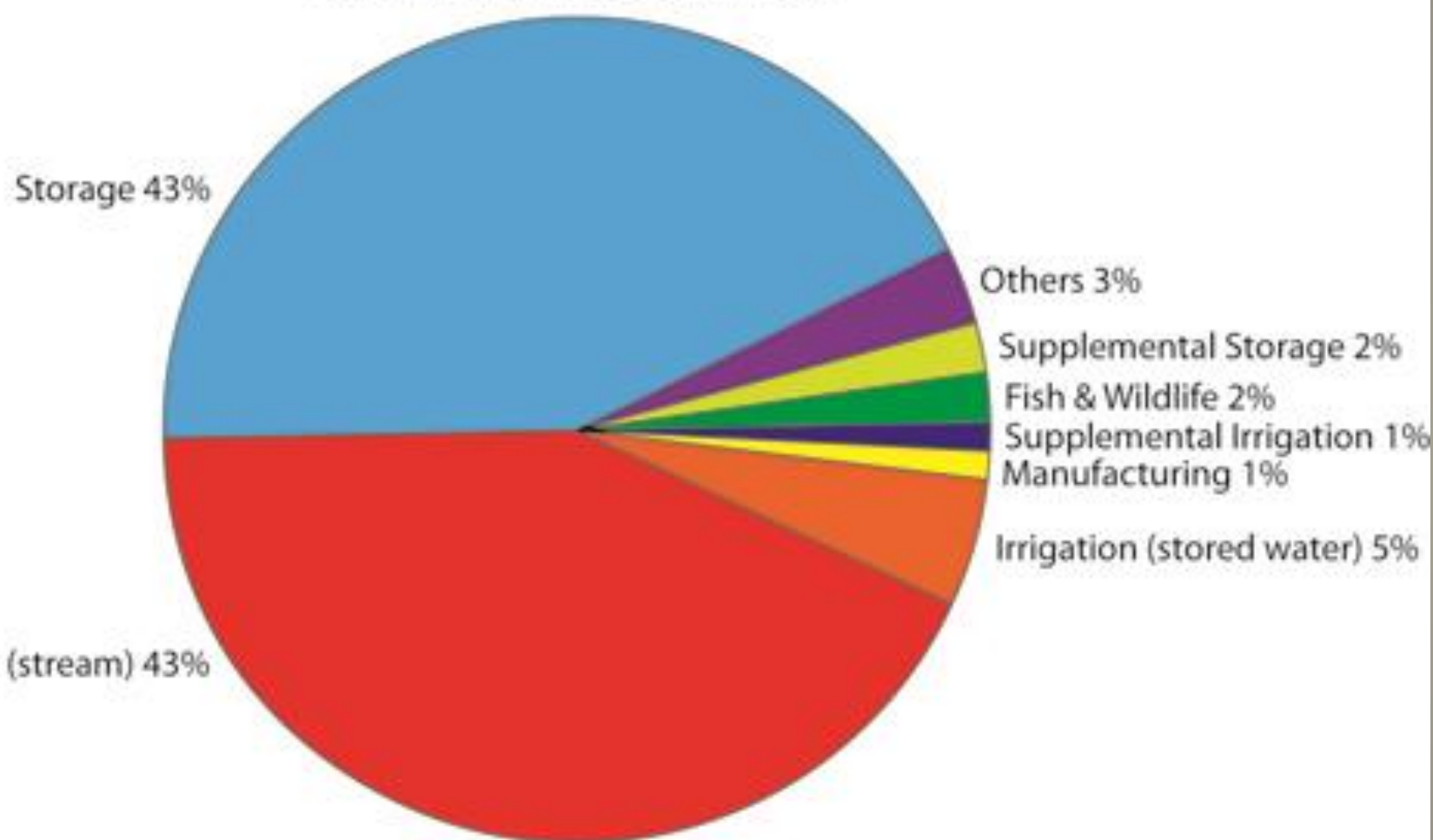
Sources: Lower Platte South Natural Resources District; Nebraska Department of Natural Resources; Nebraska Department of Roads





SURFACE WATER PERMITS

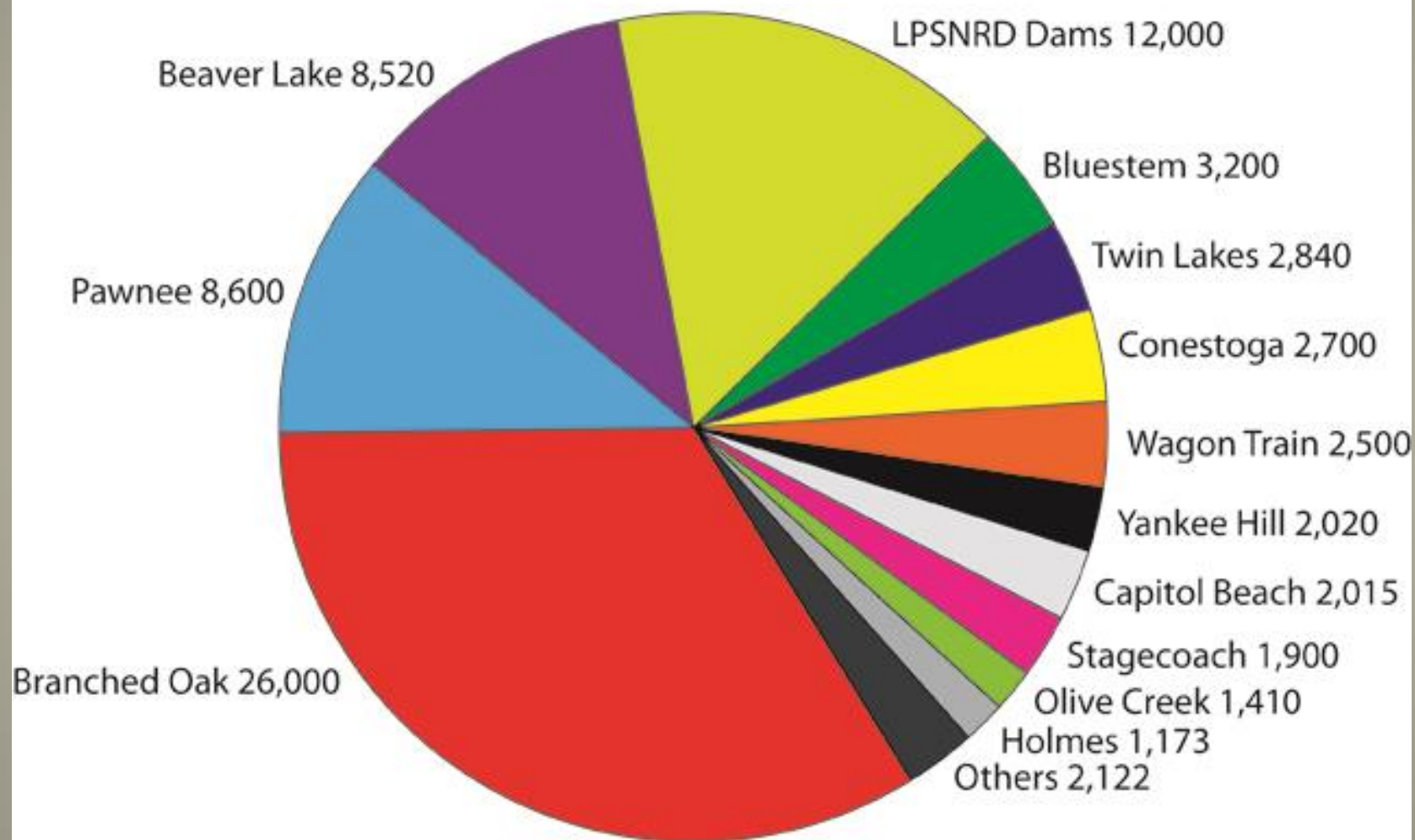
LOWER PLATTE SOUTH NRD



Others: Instream Flow, Domestic, Public Works, Maintain Lake, Induced Ground Water Recharge and Waste Storage (each less than 1%)

SURFACE WATER STORAGE PERMITS

LPSNRD (EST. 77,000 AF)



Acre Feet of Storage

A

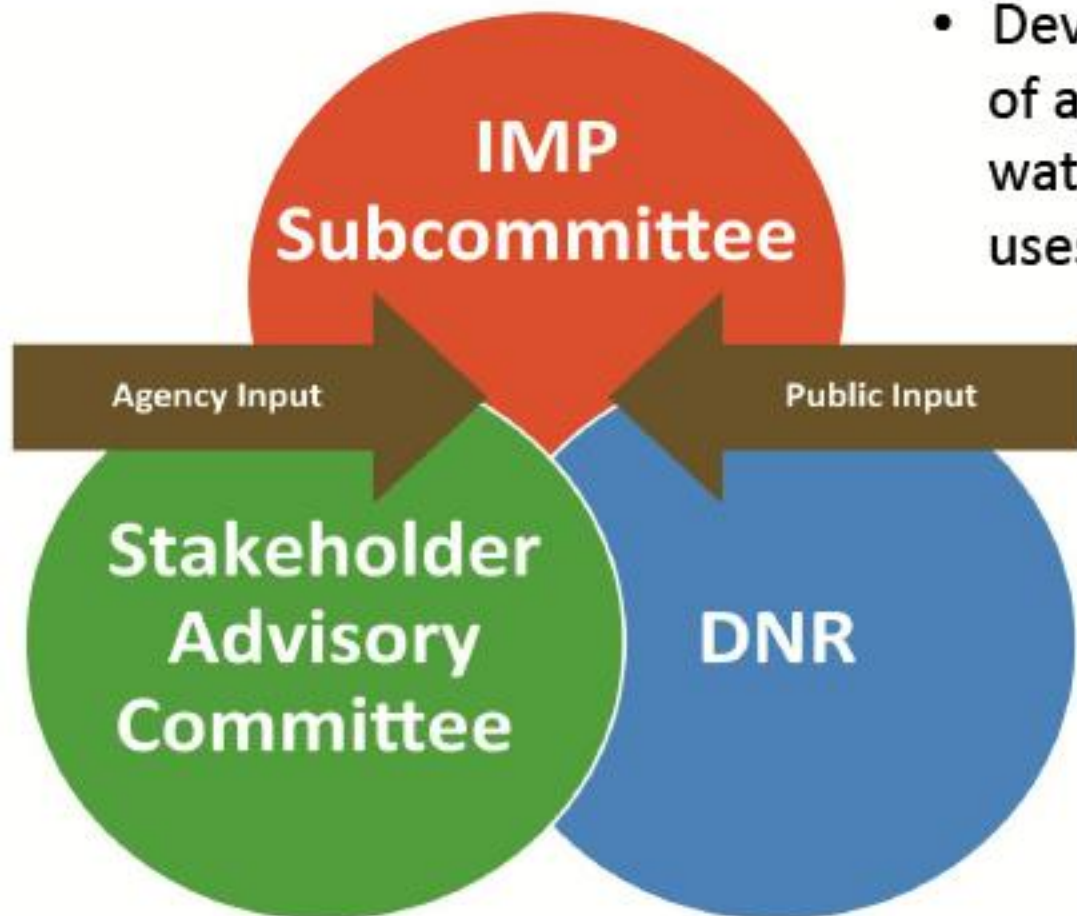




Who is Involved & What is Their Goal?

Integrated Management Plan will:

- Develop a comprehensive inventory of all available ground and surface water supplies and all current water uses.
- Help to project future water use needs.
- Identify potential sources and desired management of conservation programs.

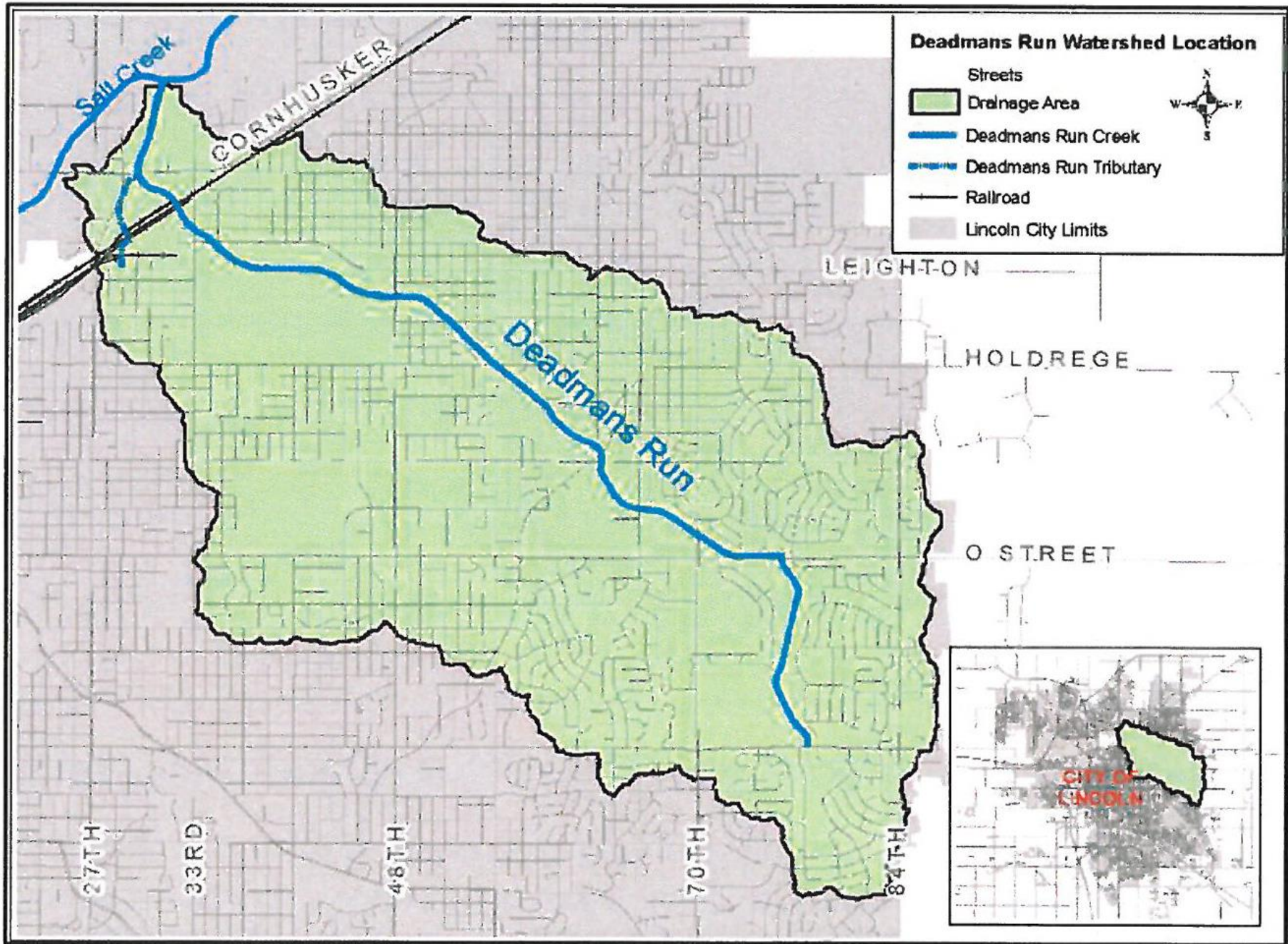


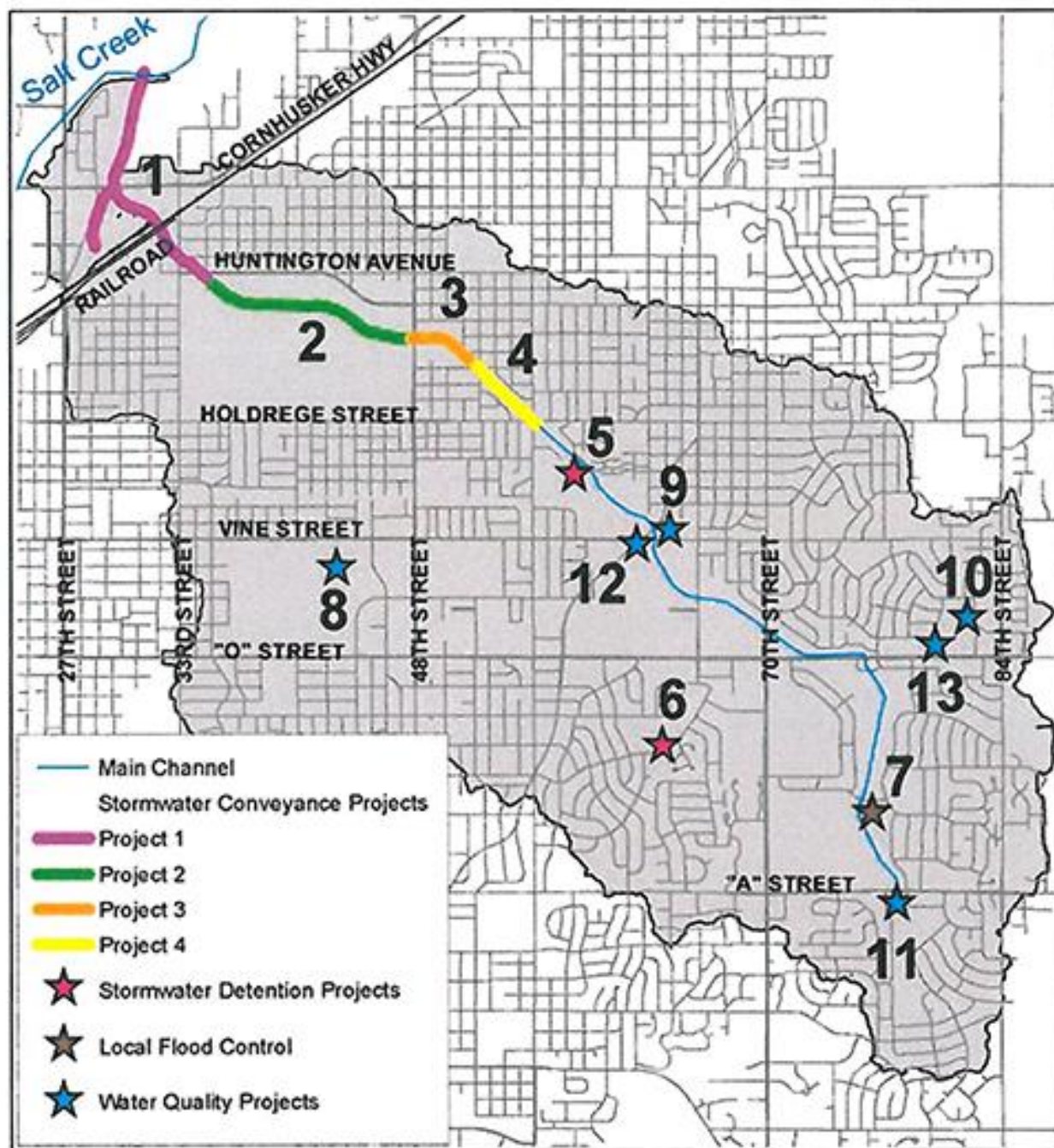
ISSUES

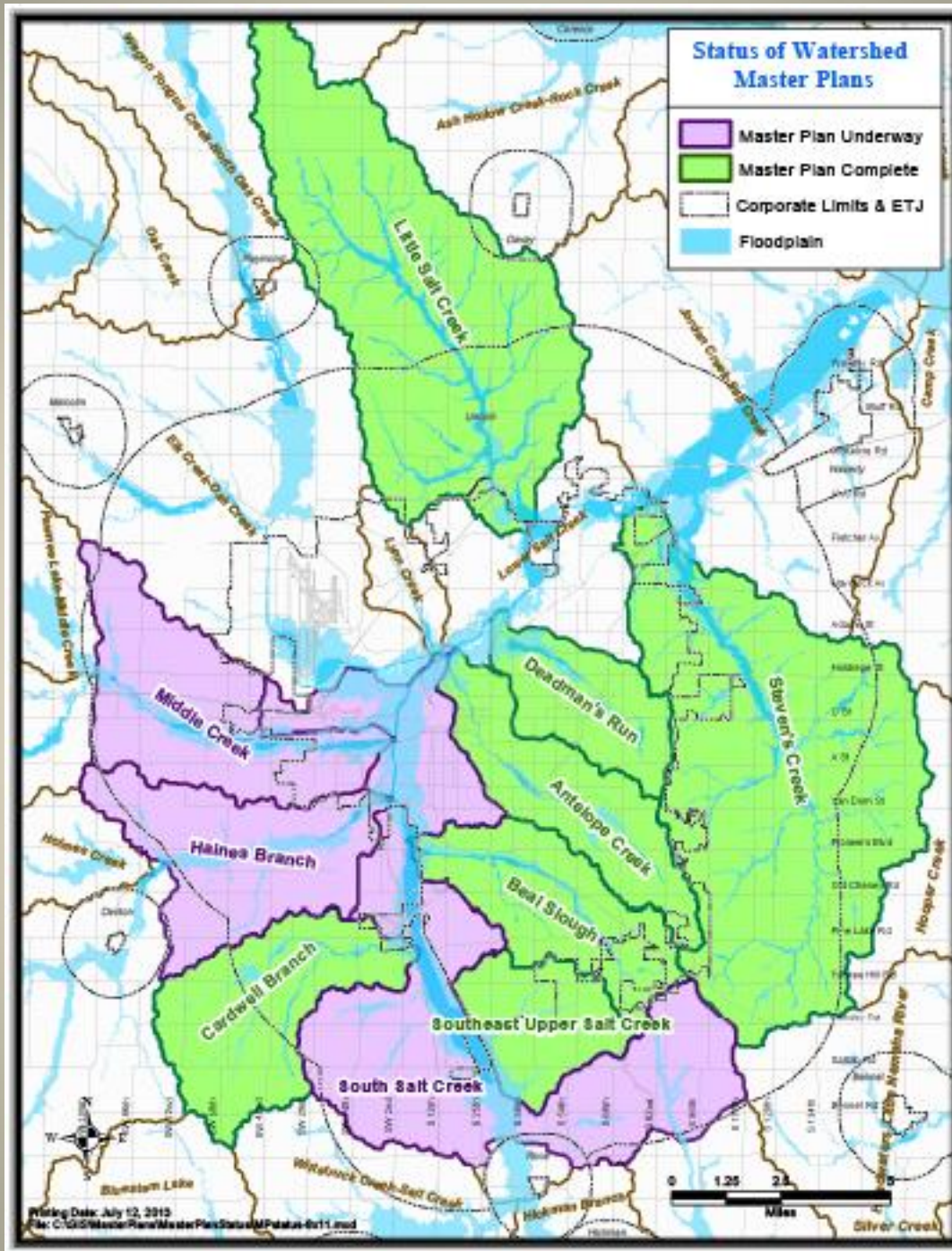
- **Domestic/community water supplies**
- **Flood control**
- **Infrastructure (flood control dams/levees) rehabilitation**
- **Surface water quality**

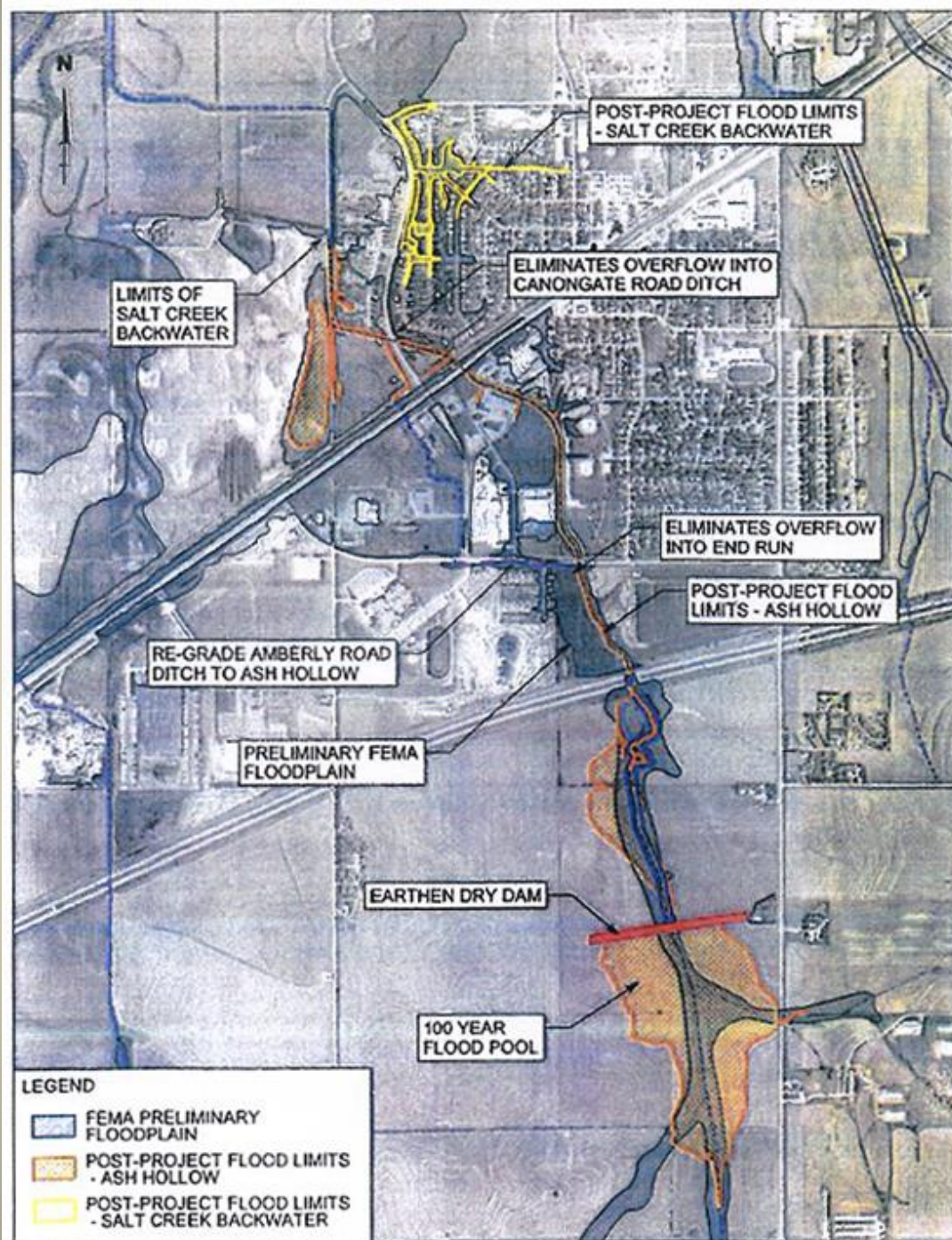
Proposed Projects

- **Deadmans Run Flood Reduction Project**
- **LPSNRD/Lincoln Basin Master Plan projects**
- **Waverly Dam Flood Reduction Project**
- **Watershed structure/levee rehabilitation**









Funding Sources

- Local NRD & City
- Others?

